Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Spring 2017 Levee Inspection Results

Sacramento Maintenance Yard Willow Slough Bypass

Summer **

Fall

Spring

	(March - May)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not detern d using the same crite			ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ation and maintenance de ended to be an indiction o	
Comments				

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/18/2017 - 4/18/2017			
DWR Inspector	Zach Jojola			
Accompanied By	Casey Lund			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start		Rating **	Α	Issue No.		6	
LM End		Issue Type +	Ма	Location *		N/A	
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item		s & Maintenaı	nce		0		0
пеш	Manuals				0		0
DWR ID DWR_ST0012_01_s _ 2013_6							
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
Sacramento Maintenance Yard has copies of their O&M manuals.							

No Photos

LM Start	Rating ** A			Issue No.		7			
LM End		Issue Type +	Ma	Location *		N/A			
Category Earthen Levee				GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Emergency Supplies &				0		0		
пеш	Equipmer	nt			0		0		
DWR ID	DWR_ST0	012_01_s _ 201	3_7						
		Comn	nent Cod	de					
Inspector Comment									
Sacramen	Sacramento Maintenance Yard has a stockpile of flood response								

material.

flood fight training.

No Photos

LM Start		Rating **	Α	Issue No.		8			
LM End		Issue Type +	Ma	Location *	N/A				
Earthen Levee				GPS La	atitud	le/Longitude			
Category				Start		End			
Item	Flood Preparedness & Training				0		0		
пеш					0		0		
DWR ID	DWR_ST0	012_01_s _ 201	3_8						
		Comn	nent Cod	le					
Inspector Comment									
Sacramen	to Mainten	ance Yard ha	s a writte	en flood res	Sacramento Maintenance Yard has a written flood response plan and				

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	0.00	Rating **	М	Issue No.		17			
LM End	0.06	Issue Type +	En	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item	Encroach	Encroachments			72 °	38.590758 °			
пеш				-121.6653	43 °	-121.666370 °			
DWR ID	DWR_ST0	012_01_s _ 201	7_17						
		Comn	nent Coo	le					
FE : Fence)								
	Inspector Comment								
Chain link fence.									

No Photos

LM Start	0.09	Rating **	U	Issue No.		19
LM End	3.51	Issue Type +	Ma	Location *		LS
Earthen Levee				GPS Latitude/Longitude		
Calegory	Category					End
Item	Vegetatio	n		38.5907	64 °	38.590766 °
llem				-121.6669	49°	-121.730034 °
DWR ID DWR_ST0012_01_s _ 2017_19						
Comment Code						

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



Tall grass on landside levee slope, blocking visibility. Spring 2017.

Photo 1 of 1: SP_2017_ST0012_295_20_20170419_00019.jpg

LM Start	0.56	Rating **	U	Issue No.		20		
LM End	3.51	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Vegetatio	n		38.590585 °		38.590767 °		
item				-121.6755	92 °	-121.730035 °		
DWR ID	DWR ID DWR_ST0012_01_s _ 2017_20							
Comment Code								
V1 : Contro	V1 : Control annual grass and weeds on the levee slopes and							

Inspector Comment

easements.



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	0.90	Rating **	A/W	Issue No.		16		
LM End	0.90	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
ltem	ltem Cracking			38.5904	56°	38.590456 °		
item				-121.681952 °		-121.681952 °		
DWR ID DWR_ST0012_01_f _ 2015_16								
		Comn	nent Cod	le				
CR1 : Monitor and have inspected by geotechnical engineer.								
		Inspecto	or Comm	nent				

noto 1 of 3 :	SP_2017_	_\$10012_	295_16_20	170320_00)014.jj
	W.				
				10/15/201	
	100	THE RES	ATT AND THE	基化 2.7	

View of the dessication cracking on the landward side of the levee. Fall 2015.

 LM Start
 0.90
 Rating **
 A/W
 Issue No.
 16 (cont)

 LM End
 0.90
 Issue Type +
 Ma
 Location *
 LS

Photo 2 of 3: SP_2017_ST0012_295_16_20170320_00015.jpg



Perspective view of the crack looking downstream. Fall 2015.

Photo 3 of 3: SP_2017_ST0012_295_16_20170320_00016.jpg

LM Start	0.90	Rating **	A/W	Issue No.	16 (cont)
LM End	0.90	Issue Type +	Ma	Location *	LS



View of the crack on the landward side of the levee looking upstream. Spring 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	1.53	Rating **	М	Issue No.		14	
LM End	2.20	Issue Type +	En	Location *	LS		
Earthen Levee				GPS La	atitud	le/Longitude	
Calegory	Category			Start		End	
Item	Encroachments			38.5903	34°	38.590466°	
пеш				-121.6936	18°	-121.705849°	
DWR ID	DWR_ST0	012_01_f _ 2016	6_14				
Comment Code							
FE : Fence							

Inspector Comment

No record of a permit releted to this fence found in levee log.



View of fence encroaching 10-foot easement on landward side of the levee. Fall 2016.

LM Start	1.65	Rating **	С	Issue No.		9			
LM End	1.65	Issue Type +	Ma	Location *		LS			
Earthen Levee				GPS Latitude/Longitude					
Category			Start		End				
Itom	Encroach	ments		38.590408°		38.590408°			
Item				-121.6957	55 °	-121.695755 °			
DWR ID DWR_ST0012_01_f _ 2016_9									
	Comment Code								

DE : Debris

Inspector Comment

No Photos

LM Start	1.86	Rating **	A/W	Issue No.		15			
LM End	1.88	Issue Type +	Ma	Location *		CR			
Category	Earthen Levee			GPS Latitude/Longitude					
Category				Start	End				
Item	Cracking			38.590378°		38.590379°			
item				-121.69963	30°	-121.699920 °			
DWR ID	DWR ID DWR_ST0012_01_f _ 2015_15								
Comment Code									
CR1 : Mon	itor and ha	ave inspected	by geote	echnical eng	jine	er.			

Inspector Comment

Cracks starting to form on the waterward slope.



Perspective view of the crack on the crown of the levee looking downstream. Fall 2015.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	1.86	Rating **	A/W	Issue No.		15 (cont)		
LM End	1.88	Issue Type +	Ма	Location *		CR		
Category	Earthen L	evee		GPS La	atituc	le/Longitude		
Calegory				Start		End		
Item	Cracking		38.5903	78°	38.590379°			
пеш				-121.699630 ° -121.699				
DWR ID DWR_ST0012_01_f _ 2015_15								
		Comn	nent Cod	de				
CR1 : Mon	CR1 : Monitor and have inspected by geotechnical engineer.							
		Inspecto	or Comm	nent				
Cracks sta	Cracks starting to form on the waterward slope.							

Photo 2 of 3 : SP_2017_ST0012_295_15_20170320_00012.jpg
The state of the s
10/18/2018

Cracks are starting to form on the waterward slope of the levee looking downstream. Fall 2015.

 LM Start
 1.86
 Rating **
 A/W
 Issue No.
 15 (cont)

 LM End
 1.88
 Issue Type +
 Ma
 Location *
 CR

Photo 3 of 3: SP_2017_ST0012_295_15_20170320_00013.jpg



There is another crack perpendicular to the crack on the levee crown. Fall 2015.

LM Start	2.02	Rating **	М	Issue No.		5	
LM End	2.02	Issue Type +	En	Location *		WS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory			Start		End		
Item	Encroach	ments		38.5903	81 °	38.590381 °	
пеш				-121.7025	54°	-121.702554°	
DWR ID DWR_ST0012_01_f _ 2016_5							
		Comn	nent Cod	de			
DE : Debri	S						
Inspector Comment							



Downed tree on waterside slope looking downstream. Fall 2016.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	2.93	Rating **	М	Issue No.		10	
LM End	3.00	Issue Type +	Ма	Location *		LS	
Catagoria Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Erosion /	Bank Caving		38.59057	72 °	38.590653°	
пеш				-121.71934	49 °	-121.720714°	
DWR ID DWR_ST0012_01_s _ 2015_10							
		_					

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Area is known to erode and may be because of the material of the levee.



View of the erosion on the landward side of the levee looking upstream. Fall 2015.

LM Start	3.36	Rating **	М	Issue No.		13	
LM End	3.36	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	ory			Start		End	
Item		rface / Depres	ssions /	38.5906	20°	38.590620 °	
пеш	Rutting			-121.7273	85 °	-121.727385 °	
DWR ID DWR_ST0012_01_s _ 2016_13							
Comment Code							

C2: Repair depressions or ruts in the crown or slope.

Inspector Comment

Photo 1 of 1: SP_2017_ST0012_295_13_20170320_00009.jpg



View of the ruts created by vehicles on the crown of the levee looking downstream. Spring 2016.

LM Start	3.50	Rating **	М	Issue No.		3	
LM End	3.50	Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item		rface / Depres	ssions /	38.5907	31 °	38.590731 °	
пеш	Rutting			-121.7299	06°	-121.729906°	
DWR ID	DWR_ST0012_01_f _ 2016_3						
Comment Code							

Inspector Comment

C2: Repair depressions or ruts in the crown or slope.

Photo 1 of 1: SP_2017_ST0012_295_3_20170320_00001.jpg



Ruts on levee crown due to vehicular activity. Fall 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	3.54	Rating **	М	Issue No.		18		
LM End	3.54	Issue Type +	Ma	Location *		CR		
Category	Earthen L	evee		GPS L	atitud	le/Longitude		
Calegory				Start		End		
Item		rface / Depres	ssions /	38.5906	85°	38.590685 °		
пеш	Rutting			-121.730657°		-121.730657°		
DWR ID DWR_ST0012_01_s _ 2016_18								
		Comn	nent Cod	le				
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.				
Inspector Comment								



View of the ruts caused by vehicles on the crown of the levee looking downstream. Spring 2016.

		D // ++					
LM Start	3.55	Rating **	U	Issue No.		21	
LM End	5.04	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.5907	'04 °	38.599981 °	
пеш				-121.730787 °		-121.753014°	
DWR ID DWR_ST0012_01_s _ 2017_21							
		Comn	nent Cod	le			
V1 : Contreasements		grass and wee	ds on th	e levee slo	pes a	and	
Inspector Comment							



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

LM Start	3.55	Rating **	U	Issue No.		22	
LM End	5.04	Issue Type +	Ma	Location *		LS	
	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetatio	n		38.5907	04°	38.599981	
item				-121.7307	87°	-121.753014	
DWR ID DWR_ST0012_01_s _ 2017_22							
		Comn	nent Cod	le			
		grass and wee	ds on th	e levee slo	pes a	and	
easements	3.						
Inspector Comment							



Tall grass on landside levee slope, blocking visibility. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	3.90	Rating **	A/W	Issue No.		12	
LM End	3.90	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory			Start		End		
Item	Cracking			38.594149°		38.594149°	
пеш			-121.735254°		-121.735254°		
DWR ID DWR_ST0012_01_f _ 2015_12							
		Comn	nent Cod	le			
CR1 : Monitor and have inspected by geotechnical engineer.							
Inspector Comment							
The sinkholes are caused by the material of the levee and runoffs. These are not rodent holes.							

LM Start	3.90	Rating **	A/W	Issue No.	12 (cont)
LM End	3.90	Issue Type +	Ма	Location *	LS

-AQ-36/2016

Photo 1 of 2: SP_2017_ST0012_295_12_20170320_00007.jpg

View of the sinkholes on the landward side of the levee looking downstream. Fall 2015.

Photo 2 of 2: SP_2017_ST0012_295_12_20170320_00008.jpg



View of the sinkholes on the landward side of the levee. Sinkholes are caused due to material of the levee and runoffs. Spring 2016.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	3.94	Rating **	A/W	Issue No.		11
LM End	3.94	Issue Type +	Ма	Location *	LS	
Catagoria Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Item	Cracking				45°	38.594645 °
пеш				-121.7357	12 °	-121.735712 °
DWR ID	DWR ID DWR_ST0012_01_f _ 2015_11					
Commont Codo						

Comment Code

CR1: Monitor and have inspected by geotechnical engineer.

Inspector Comment

The sinkholes are caused by the material of the levee and runoffs. These are not rodent holes.

Photo 1 of 1: SP_2017_ST0012_295_11_20170320_00006.jpg



View of the sinkholes on the landward side of the levee looking downstream. Fall 2015.

LM Start	4.12	Rating **	М	Issue No.		4	
LM End	4.60	Issue Type +	En	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroach	ments		38.5967	84°	38.599845°	
itelli				-121.737662 °		-121.744830 °	
DWR ID	DWR STO	2 4					

DT: Ditch

Inspector Comment

Comment Code

Ditch is at the levee toe.

Photo 1 of 1: SP_2017_ST0012_295_4_20170320_00002.jpg



View of the ditch on the landward side of the levee looking downstream. Fall 2015.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/18/2017 04/18/2017	Zach Jojola

LM Start	4.30	Rating **	М	Issue No.		23				
LM End	4.30	Issue Type + En Location *		Issue Type + En Location *		4.30 Issue Type +		Location *		LS
Supplemental				GPS Latitude/Longitude						
Category				Start		End				
Item	DWR UC	IP Field Study		38.59884	o°	38.598840 °				
пеш				-121.73960	o°	-121.739600 °				
DWR ID										

No Photos

Comment Code

Inspector Comment

FS_ID:29303 DS_ID:17684 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 09/19/2012 PG&E may provide further info. (DWR

UCIP - P. Amatya)

FIELD_STRUCT_DESC: 8-inch gas line of unknowna material through both levees. (Pacific Gas and Electric Co. [PG&E]). [Additional Reference(s): USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947,

Drawing No. 50-4-2281 Sheet 1 (Station 46+50)]

FS Date: 5/28/2013 2:36:00 PM

LM Start	5.07	Rating **	M	Issue No.		24	
LM End	5.07	Issue Type +	En	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UC	IP Field Study		38.59994	0°	38.599940°	
item				-121.75353	0°	-121.753530°	
DWR ID							

No Photos

Comment Code

Inspector Comment

FS_ID:44951 DS_ID:17667 EP_NO: 15811

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 05/28/2013 No markers or other indication of pipe location. Needs to be marked. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: Replace existing 4-inch diameter natural gas pipeline with an 8-inch diameter natural gas pipeline under the channel and within both banks of Willow Slough. (Permit No. 15811, unknown

year constructed - Shell Western E&P Inc.)

FS Date: 5/5/2015 8:40:19 AM

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/18/2017 - 4/18/2017			
DWR Inspector	Zach Jojola			
Accompanied By	Casey Lund			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	0.03	Rating **	U	Issue No.		12	
LM End	0.69	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.5990	35 °	38.598985 °	
пеш				-121.7539	15 °	-121.741674°	
DWR ID	DWR_ST0	012_02_s _ 201	7_12			·	
		Comn	nent Cod	le			
V1 : Contre	•	grass and wee	eds on th	e levee slo	pes a	and	
0.00011101110	<u>, </u>	Inspecto	or Comm	nent			



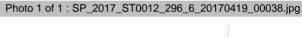
Tall grass on waterside levee slope, blocking visibility. Spring 2017.

LM Start	0.03	Rating **	U	Issue No.		6	
LM End	0.69	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start		End	
Item	Vegetatio	n		38.5990	35°	38.598985	٥
пеш				-121.7539	15 °	-121.741673	٥
DWR ID DWR_ST0012_02_s _ 2017_6							

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment





Tall grass on landside levee slope, blocking visibility. Spring 2017.

							Ξ
LM Start	0.07	Rating **	М	Issue No.		13	
LM End	0.07	Issue Type +	En	Location *		LS	
Category	evee	GPS La	atitud	le/Longitude			
Calegory	sategory			Start		End	
Item	Encroachments				17°	38.599117	0
item				-121.7532	64 °	-121.753264	0
DWR ID	DWR_ST0	012_02_s _ 201	7_13				
		Comn	nent Cod	le			
EQ : Equip	ment						
		Inspecto	or Comm	nent			

Beehives on landside slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	0.07	Rating **	М	Issue No.		38			
LM End	0.07	Issue Type +	En	Location *		LS			
Category	Supplemental					GPS Latitude/Longitude			
Calegory				Start		End			
Item	DWR UC	IP Field Study		38.59910	o°	38.599100 °			
пеш				-121.753260	o°	-121.753260 °			
DWR ID									

Comment Code

Inspector Comment

FS_ID:45283 DS_ID:17703 EP_NO: 15811

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 05/10/2017 Unable to find permit file to clarify if

crossing was constructed. (DWR UCIP - O. Magana)

05/24/2013 Need to contact owner of pipe to place indicators on levee.

(DWR Sacramento Yard - C. Lund)

FIELD_STRUCT_DESC: Replace existing 4-inch diameter natural gas pipeline with an 8-inch diameter natural gas pipeline under the channel and within both banks of Willow Slough. (Permit No. 15811, unknown

year - Shell Western E&P Inc.) FS Date: 5/14/2015 1:35:47 PM

Photo 1 of 2 : SP	2017	ST0012	296	7	20170320	00005 ina
FIIULU I UI Z . SF	2017	310012	230	- /	20170320	00005.1

No Photos



An updated view of the ditch hear Livi 0.29. Fall 2016.

LM Start	0.29	Rating **	М	Issue No.		7			
LM End	0.40	Issue Type +	En	Location *		LS			
Category	Earthen L	evee	GPS La	atitud	le/Longitude				
Calegory				Start		End			
Item	Encroach	ments		38.5989	93°	38.599045 °			
пеш				-121.7491	30°	-121.747107 °			
DWR ID	DWR ID DWR_ST0012_02_s _ 2014_7								
		Comn	nent Cod	le					
DT : Ditch									
		Inspecto	or Comm	ent					
The ditch i	s located a	at the levee to	e.						

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	0.29	Rating **	М	Issue No.		7 (cont)
LM End	0.40	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroach	Encroachments				38.599045 °
item				-121.7491	30°	-121.747107 °
DWR ID	DWR_ST0	012_02_s _ 201	4_7			
		Comn	nent Cod	le		
DT : Ditch						
		Inspecto	or Comm	ent		
The ditch i	s located a	at the levee to	e.			



View of the ditch on the landward side of the levee looking downstream. Spring 2016.

LM Start	0.40	Rating **	М	Issue No.		26
LM End	0.56	Issue Type +	En	Location *	LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroachments)45°	38.599033°
пеш				-121.747108 °		-121.744180 °
DWR ID	DWR_ST0	012_02_f _ 2016	5_26			
		Comn	nent Cod	de		
AT : Agric	ultural tillin	g				
Inspector Comment						



View of a tilling issue at LS levee toe near LM 0.40 where ditch ends. Fall 2016.

-										
LM Start	0.69	Rating **	M	Issue No.	27					
LM End	1.54	Issue Type +	Ma	Location *		LS				
Category	Earthen L	evee		GPS La	atitud	e/Longitude				
Calegory				Start		End				
Vegetation 38.598985 ° 38.59011										
-121.741673 ° -121.73130										
DWR ID	DWR ID DWR_ST0012_02_s _ 2017_27									
		Comn	nent Cod	le						
V1 : Contro easements		rass and wee	ds on th	e levee slo	pes a	and				
		Inspecto	or Comm	nent						

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	0.69	Rating **	M	Issue No.		28			
LM End	1.57	Issue Type +	Ma	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Vegetatio	n	38.598985 ° 38.5		38.590064°				
пеш			-121.741673°		-121.730723 °				
DWR ID	DWR_ST0	012_02_s _ 201	7_28						
		Comn	nent Cod	le					
V1 : Contro easements		grass and wee	ds on th	e levee slo	pes a	and			
		Inspecto	or Comm	nent					

No Photos

LM Start	1.21	Rating **	Rating ** A/W Issue			23
LM End	1.21	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	ituc	le/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		38.59336	8 °	38.593368 °
item				-121.73560	5 °	-121.735605 °
DWR ID	DWR_ST0012_02_f _ 2016_23					

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

Erosion on waterward side at utility crossing. Doesn't appear to be within prism, but should be monitored.

Photo 1 of 1 : SP_2017_ST0012_296_23_20170320_00029.jpg



View of an erosion site around UCIP pipe FSID 13725 on waterward side of the levee. Fall 2016.

LM Start	1.54	Rating **	М	Issue No.		21		
LM End	1.54	Issue Type +	Ma	Location *		LS		
Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Erosion /	Bank Caving		38.5901	08 °	38.590108°		
пеш				-121.7312	54 °	-121.731254°		
DWR ID	DWR_ST0012_02_s _ 2017_21							

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Rills on landside levee slope.



View of rills on landside levee slope. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	1.57	Rating **	М	Issue No.		29		
LM End	1.57	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee		GPS Latitude/Longitude				
Category				Start		End		
Item	Slope Sta	bility		38.5900	64°	38.590064°		
item	item				23 °	-121.730723°		
DWR ID	DWR_ST0	012_02_s _ 201	7_29					
		Comn	nent Coc	le				
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.								
Inspector Comment								
Tire damage on landside levee slope.								

Photo 1 of 1 : SP_2017_ST0012_296_29_20170419_00040.jpg

View of tire damage on landside levee slope. Spring 2017.

LM Start	1.65	Rating **	М	Issue No.	30				
LM End	6.67	Issue Type +	Ма	Location *	WS				
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item	Vegetation			38.589986 °		38.580482 °			
пеш			-121.729360 °		-121.647563 °				
DWR ID DWR_ST0012_02_s _ 2017_30									
	0 101								

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start	1.65	Rating **	M	Issue No.		31	
LM End	6.67	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Lat	itud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.58998	6°	38.580481	0
item				-121.72936	0°	-121.647563	0
DWR ID	DWR_ST0	012_02_s _ 201	7_31				
		Comp	ant Coo	lo.			

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

11101	1.77	Rating **	М	Issue No.		8	
LM Start	1.77	Rating	IVI	issue ivo.		•	
LM End	1.77	1.77 Issue Type + Ma Location * W				WS	
Category	evee	GPS L	atitud	e/Longitude			
Calegory	gory			Start		End	
Item	Erosion / Bank Caving			38.5899	66°	38.589966 °	
nem				-121.727072 °		-121.727072°	
DWR ID DWR_ST0012_02_s _ 2012_8							
Comment Code							
E2: Schedule repair of erosion site prior to the next inspection.							
Inspector Comment							



View of the erosion on the edge of the channel looking downstream. Fall 2015

LM Start	2.04	Rating **	A/W	Issue No.		5		
LM End	2.04	Issue Type +	Ma	Location *		WS		
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Erosion /	Bank Caving		38.5899	06°	38.589906°		
пеш				-121.722218°		-121.722218 °		
DWR ID DWR_ST0012_02_s _ 2012_5								
Comment Code								
E1 : Note	and monito	or erosion site						
Inspector Comment								

LM Start	2.04	Rating **	A/W	Issue No.	5 (cont)
LM End	2.04	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2017_ST0012_296_5_20170320_00003.jpg

View of the erosion on the edge of the channel on the waterward side of the levee looking downstream. Fall 2015.

Photo 2 of 2: SP_2017_ST0012_296_5_20170320_00004.jpg



View of the erosion on the edge of the channel on the waterward side of the levee looking downstream. Spring 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	2.25	Rating **	A/W	Issue No.		19		
LM End	2.25	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS L	atitud	e/Longitude		
Calegory				Start		End		
Item	Erosion /	Bank Caving		38.5898	845°	38.589845°		
пеш				-121.718292 °		-121.718292°		
DWR ID DWR_ST0012_02_f _ 2015_19								
Comment Code								
E1 : Note a	and monito	or erosion site						
			_					
Inspector Comment								
Erosion creeping onto toe road.								

LM Start	2.25	Rating **	A/W	Issue No.	19 (cont)
LM End	2.25	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2017_ST0012_296_19_20170320_00023.jpg

View of the erosion at the edge of the channel on the waterward side of the levee looking downstream. Fall 2015.

Photo 2 of 2: SP_2017_ST0012_296_19_20170320_00024.jpg



View of the erosion at the edge of the channel on the waterward side of the levee looking downstream. Spring 2016.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	2.73	Rating **	A/W	Issue No.		20		
LM End	2.73	2.73 Issue Type + Ma Location * WS						
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Erosion /		38.5897	'07 °	38.589707 °			
пеш				-121.709429 °		-121.709429 °		
DWR ID DWR_ST0012_02_f _ 2015_20								
Comment Code								
E1: Note a	and monito	or erosion site						
Inspector Comment								
Erosion starting to creep onto the toe road.								



View of the erosion at the edge of the channel looking downstream. Fall 2015

2.82	Rating **	A/W	Issue No.		10		
2.82	Issue Type +	Ма	Location *	WS			
Category Earthen Levee				atitud	e/Longitude		
			Start		End		
Erosion /	Bank Caving		38.5896	91°	38.589691 °		
			-121.707740 °		-121.707740 °		
DWR ID DWR_ST0012_02_f _ 2014_10							
Comment Code							
E1 : Note and monitor erosion site.							
	Inspecto	or Comm	nent				
	2.82 Earthen L Erosion / I	2.82 Issue Type + Earthen Levee Erosion / Bank Caving DWR_ST0012_02_f _ 2014 Command monitor erosion site.	2.82 Issue Type + Ma Earthen Levee Erosion / Bank Caving DWR_ST0012_02_f_2014_10 Comment Cocand monitor erosion site.	2.82 Issue Type + Ma Location * Earthen Levee GPS Li Start Erosion / Bank Caving 38.5896 -121.7077 DWR_ST0012_02_f _ 2014_10 Comment Code	2.82 Issue Type + Ma Location * Earthen Levee		

LM Start	2.82	Rating **	A/W	Issue No.	10 (cont)
LM End	2.82	Issue Type +	Ma	Location *	WS



Erosion on toe road. Fall 2014.

Photo 2 of 2 : SP_2017_ST0012_296_10_20170320_00012.jpg



View of the erosion on the toe road looking downstream. Spring 2016.

LS: Land Side N/A: Not Applicable	* Location	** Rating		+ Issue Type
	WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	2.97	Rating **	М	Issue No.		9	
LM End	2.97	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory			Start		End		
Item	Erosion /	Erosion / Bank Caving			86°	38.589686 °	
item				-121.705041 °		-121.705041 °	
DWR ID	DWR_ST0	012_02_f _ 2014	4_9				
		Comn	nent Cod	le			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
Inspector Comment							

LM Start	2.97	Rating **	М	Issue No.	9 (cont)
LM End	2.97	Issue Type +	Ма	Location *	WS



An updated view of erosion site on waterward side of the levee that keeps on growing. Fall 2016.

Photo 2 of 3: SP_2017_ST0012_296_9_20170320_00009.jpg



Erosion on toe road. Fall 2014.

LM Start	2.97	Rating **	М	Issue No.	9 (cont)
LM End	2.97	Issue Type +	Ma	Location *	WS

Photo 3 of 3: SP_2017_ST0012_296_9_20170320_00010.jpg



View of the erosion on the waterward side of the levee looking downstream. Fall 2015.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	2.98	Rating **	С	Issue No.		3			
LM End	2.98	Issue Type +	En	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory			Start		End				
Item	Encroach	ments		38.5896	66 °	38.589666°			
пеш				-121.704729°		9° -121.704729°			
DWR ID	ID DWR_ST0012_02_f _ 2016_3								
		Comn	nent Cod	le					
SI : Sign									
	Inspector Comment								

No Photos

LM Start	3.05	Rating **	С	Issue No.	16				
LM End	3.05	Issue Type +	Ma	Location *		LS			
Category Earthen Levee				GPS Lat	itud	e/Longitude			
Category				Start		End			
Item	Slope Sta	bility		38.58963	8°	38.589638	0		
пеш				-121.70345	2°	-121.703452	0		
DWR ID	DWR_ST0	012_02_s _ 201	6_16						
	Comment Code								

No Photos

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

LM Start	3.95	Rating **	A/W	Issue No.		18			
LM End	3.95	Issue Type +	Ма	Location *	WS				
Category	Earthen L	GPS La	titud	le/Longitude					
Category				Start		End			
Item	Erosion /	Bank Caving		38.5895	° 80	38.589508°			
Item				-121.686850 °		-121.686850 °			
DWR ID	DWR ID DWR_ST0012_02_s _ 2016_18								
		Comn	nent Cod	le					
E1 : Note a	and monito	or erosion site	-						
Inspector Comment									

Photo 1 of 1 : SP_2017_ST0012_296_18_20170320_00022.jpg



View of the erosion on the waterward side looking downstream. Spring 2016.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected A/W: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	4.18	Rating **	С	Issue No.		14		
LIVI Start								
LM End	4.18	Issue Type +	Ма	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory		Start		End				
Item	Encroach	ments		38.5895	16°	38.589516 °		
пеш	item			-121.682585 °		-121.682585 °		
DWR ID	DWR_ST0	DWR_ST0012_02_f _ 2016_14						
		Comn	nent Cod	le				
GA : Garba	age							
		Inspecto	or Comm	nent				

LM Start	4.29	Rating **	М	Issue No.		11	
LM End	4.29	Issue Type +	Ma	Location *		WS	
Category	GPS La	atitud	e/Longitude				
Calegory		Start		End			
Item	Erosion / Bank Caving			38.5895	50°	38.589550	0
пеш				-121.680632 °		-121.680632	0
DWR ID	DWR_ST0	012_02_f _ 2014	4_11				
		Comn	nent Cod	le			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
	Inspector Comment						

LM Start	4.29	Rating **	М	Issue No.	11 (cont)
LM End	4.29	Issue Type +	Ma	Location *	WS



An updated view of the erosion site that keeps on growing toward WS levee slope. Fall 2016.

Photo 2 of 3: SP_2017_ST0012_296_11_20170320_00014.jpg



Perspective view of the site. Fall 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	4.29	Rating **	М	Issue No.		11 (cont)	
LM End	4.29	Issue Type +	Ma	Location *		WS	
Category	Catagori Earthen Levee			GPS Latitude/Longitude			
Calegory	Jalegory			Start		End	
Itom	Item Erosion / Bank Caving			38.589550 °		38.589550 °	
пеш				-121.68063	32 °	-121.680632 °	
DWR ID DWR_ST0012_02_f _ 2014_11							
Comment Code							
E2 : Schedule repair of erosion site prior to the next inspection.							

Inspector Comment

Photo 3 of 3: SP_2017_ST0012_296_11_20170320_00015.jpg



View of the erosion at the edge of the channel on the waterward side of the levee looking downstream. Fall 2015.

LM Start	4.59	Rating **	М	Issue No.		39	
LM End	4.59	Issue Type +	En	Location *		WS	
Catagony	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		38.5895	75°	38.589575	0
пеш				-121.6749	50°	-121.674950	0
DWR ID							

Comment Code Inspector Comment

FS_ID:45285 DS_ID:546 EP_NO: 10319

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)

05/24/2013 Material removed from inlet last fall. Outlet cleared. (DWR Sacramento Yard - C. Lund)

09/20/2012 Soil and debris on inlet mouth. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate is located on the waterside (WS) end. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 10319, 1974 - Bell) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee

Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 244+47)]

FS Date: 5/14/2015 1:36:11 PM

Photo 1 of 3: UCIP SP 2017 45285 22809.jpg



Waterside view- pipe and flap gate.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	4.59	Rating **	М	Issue No.		39 (cont)	
LM End	4.59	Issue Type +	En	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	DWR UC	IP Field Study		38.58957	5°	38.589575	
пеш				-121.67495	0 °	-121.674950	
DWR ID							

Comment Code

Inspector Comment

FS_ID:45285 DS_ID:546 EP_NO: 10319

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK,

RF. (DWR Sacramento Yard - C. Lund)

05/24/2013 Material removed from inlet last fall. Outlet cleared. (DWR

Sacramento Yard - C. Lund)

09/20/2012 Soil and debris on inlet mouth. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate is located on the waterside (WS) end. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 10319, 1974 - Bell) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 244+47)]

FS Date: 5/14/2015 1:36:11 PM

LM Start	4.59	Rating **	М	Issue No.	39 (cont)
LM End	4.59	Issue Type +	En	Location *	WS

Photo 2 of 3: UCIP_SP_2017_45285_22811.jpg



Landside view- pipe and headwall.

Photo 3 of 3: UCIP_SP_2017_45285_22810.jpg



Landside view- soil and debris on mouth of the inlet pipe.

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	5.05	Rating **	M	Issue No.		15	
LM End	5.05	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / Bank Caving			38.589570°		38.589570 °	
пеш	nem				88°	-121.666588 °	
DWR ID DWR_ST0012_02_s _ 2015_15							
		Comn	nent Cod	de			
E2 : Schedule repair of erosion site prior to the next inspection.							
Inspector Comment							

Photo 1 of 3 : SP_2017_ST0012_296_15_20170320_00017.jpg
TO THE RESIDENCE OF THE PARTY O

An updated view of the erosion site that keeps on growing toward WS levee slope. Fall 2016.

 LM Start
 5.05
 Rating **
 M
 Issue No.
 15 (cont)

 LM End
 5.05
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 3: SP_2017_ST0012_296_15_20170320_00018.jpg



View of the erosion on the edge of the channel on the waterward side of the levee. Spring 2015.

Photo 3 of 3: SP_2017_ST0012_296_15_20170320_00019.jpg

LM Start	5.05	Rating **	М	Issue No.	15 (cont)
LM End	5.05	Issue Type +	Ma	Location *	WS



View of the erosion at the edge of the channel on the waterward side of the levee looking downstream. Fall 2015.

* Location	** Rating		+ Issue Type	
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement	

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

5.09	Rating **	A/W	Issue No.	17		
5.09	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Erosion /	Bank Caving		38.58956	65°	38.589565 °	
			-121.665731 °		-121.665731 °	
DWR_ST0	012_02_f _ 2016	6_17				
Comment Code						
	5.09 Earthen L Erosion /	5.09 Issue Type + Earthen Levee Erosion / Bank Caving DWR_ST0012_02_f _ 2016	5.09 Issue Type + Ma Earthen Levee Erosion / Bank Caving DWR_ST0012_02_f_ 2016_17	5.09 Issue Type + Ma Location * Earthen Levee GPS La Start Erosion / Bank Caving 38.58956 -121.66573 DWR_ST0012_02_f_ 2016_17	5.09 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Erosion / Bank Caving 38.589565 -121.665731 ° DWR_ST0012_02_f_2016_17	

E1 : Note and monitor erosion site.

Inspector Comment



View of a site that may become a larger erosion site in the future. Waterward side of the levee looking downstream. Fall 2016.

LM Start	5.22	Rating **	М	Issue No.	4	
LM End	5.22	Issue Type +	Ма	Location *		WS
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Item	Encroach	ments		38.5895	72 °	38.589572 °
пеш				-121.663432 °		-121.663432 °
DWR ID DWR_ST0012_02_s _ 2017_4						
Comment Code						

TR : Tree or limb

Inspector Comment

Large log on waterside levee slope.

LM Start	5.59	Rating **	М	Issue No.		32		
LIVI Start	3.33	rtating	IVI	10000 140.		JZ		
LM End	5.59	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Category	Category			Start		End		
Item	Erosion / Bank Caving			38.5895	32°	38.589532 °		
item				-121.6566	31 °	-121.656631 °		
DWR ID	DWR_ST0	012_02_s _ 201	7_32					
		Comn	nent Cod	le				
E2 : Schedule repair of erosion site prior to the next inspection.								
	Inspector Comment							



View of erosion on waterside levee slope. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	5.72	Rating **	С	Issue No.		22
LM End	5.72	Issue Type +	Ob	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Cracking			38.5894	99°	38.589499 °
пеш					98°	-121.654098°
DWR ID	DWR_ST0	012_02_f _ 201	5_22			
		Comn	nent Cod	le		
CR1: Mon	itor and ha	ave inspected	by geote	echnical en	gine	er.
		Inspecto	or Comm	nent		

No Photos

LM Start	6.07	Rating **	М	Issue No.		33	
LM End	6.07	Issue Type +	Ма	Location *		WS	
Category	Catagoni Earthen Levee			GPS Latitude/Longitude			
Category		Start		End			
Item	Erosion /	Bank Caving		38.5890	45°	38.589045 °	
iteiii			-121.647854 °		-121.647854 °		
DWR ID DWR_ST0012_02_s _ 2017_33							

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment



Photo 1 of 1: SP_2017_ST0012_296_33_20170419_00042.jpg

View of erosion into waterside levee prism. Spring 2017.

LM Start	6.16	Rating **	С	Issue No.		24		
LM End	6.16	Issue Type +	Ob	Location *		WS		
Category	Earthen L	.evee		GPS La	PS Latitude/Longitude			
Category				Start		End		
Item	Cracking			38.5878	26°	38.587826	0	
пеш				-121.6473	64 °	-121.647364	0	
DWR ID	DWR_ST0	012_02_f _ 201	5_24					
		Comn	nent Cod	le				
CR1: Mon	itor and ha	ave inspected	by geote	echnical en	gine	er.		
		Inspecto	or Comm	ent				

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	6.67	Rating **	U	Issue No.	34		
LM End	6.81	Issue Type +	Ma	Location *	WS		
Earthen Levee			GPS Latitude/Longitude				
Category						End	
Itom	ltem Vegetation				32 °	38.578447 °	
пеш					63 °	-121.647601 °	
DWR ID	DWR_ST0012_02_s _ 2017_34						
Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



Tall vegetation on waterside levee slope, blocking visibility. Spring 2017.

LM Start	6.67	Rating **	U	Issue No.	35		
LM End	6.81	Issue Type +	Ma	Location *	LS		
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Vegetation				38.5804	82 °	38.578447	
Item				-121.6475	63 °	-121.647601	
DWR ID	DWR ST0012 02 s 2017 35						

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



Tall grass on landside levee slope, blocking visibility. Spring 2017.

LM Start	6.81	Rating **	М	Issue No.		37	
LM End	7.45	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	titud	le/Longitude	
Calegory			Type + Ma Location * GPS La Start 38.5784 -121.6476	End			
Item	Vegetatio	n	38.57844	16°	38.574403	0	
пеш		7.45 Issue Type + Ma Location * arthen Levee GPS I start Start egetation 38.578	-121.64760	00°	-121.638751	0	
DWR ID	DWR_ST0	012_02_s _ 201	7_37				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2017

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/18/2017 04/18/2017	Zach Jojola

LM Start	6.81	Rating **	M	Issue No.		36	
LM End	7.45	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Vegetation				38.5784	46°	38.574402 °	
пеш				-121.647600 °		-121.638751°	
DWR ID	DWR_ST0012_02_s _ 2017_36						
	Comment Code						
V1 : Contro	V1 : Control annual grass and weeds on the levee slopes and						
easements	S.						
Inspector Comment							

No Photos

LM Start	7.15	Rating **	М	Issue No.	25		
LM End	7.46	Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Crown Surface / Depressions /				38.574860 °		38.574293°	
item	Rutting		-121.644047 °		-121.638713 °		
DWR ID	DWR_ST0012_02_s _ 2016_25						
Comment Code							
C3 : Add appropriate gravel or road base. Grade and compact.							
Inspector Comment							
Crown needs to be regraded.							



View of the crown of the levee looking downstream. Road needs to be regraded. Spring 2016.

A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement